How to Use American Community Survey (ACS) Geodatabase Files

March 10, 2021

Dial-in (For Audio): 1-877-918-2514 (Passcode: 4253419)

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Diana Lavery, ArcGIS Living Atlas of the World Esri, Inc.



Slides available at:

The American Community Survey Outline

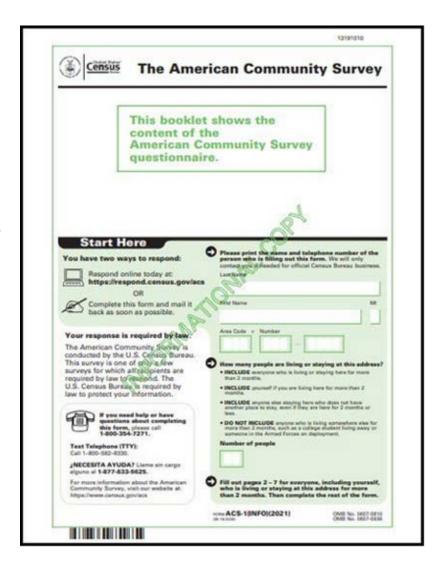
- American Community Survey (ACS) basics
- About the geodatabase files
- Accessing and downloading the geodatabase files
- Using metadata tables to identify full descriptions
- Joining feature class to tables
- Resources for learning more
- Questions



The Foundation

The American Community Survey is on the leading edge of survey design, continuous improvement, and data quality

- The nation's most current, reliable, and accessible data source for local statistics on critical planning topics such as age, children, veterans, commuting, education, income, and employment
- Surveys 3.5 million addresses and informs over \$675 billion of Federal government spending each year
- Covers **40+ topics**, supports over **300** evidence-based Federal government uses
- Three key annual data releases:
 - 1-year Estimates (for large populations)
 - 1-year Supplemental Estimates (for small populations)
 - 5-year Estimates (for very small populations)





Availability of Data Products

Estimated Population of Geographic Area	1-Year Estimates	1-Year Supplemental Estimates	5-Year Estimates
65,000 or more	X	X	X
20,000 to 64,999		X	X
Less than 20,000			X
Release Date	September 2021	October 2021	December 2021

census.gov/programs-surveys/acs/news/data-releases.html



How is the American Community Survey Different from a Census?

	ACS	Census
Purpose	Sample estimates	Official counts
Collects	Detailed social, economic, housing, and demographic characteristics	Basic demographics
Produces	Population and housing characteristics	Population and housing totals
New Data Every	Year	10 years
Data Reflect	Period of time	Point in time



Data Collection Process

SELF-RESPONSE





NONRESPONSE FOLLOWUP



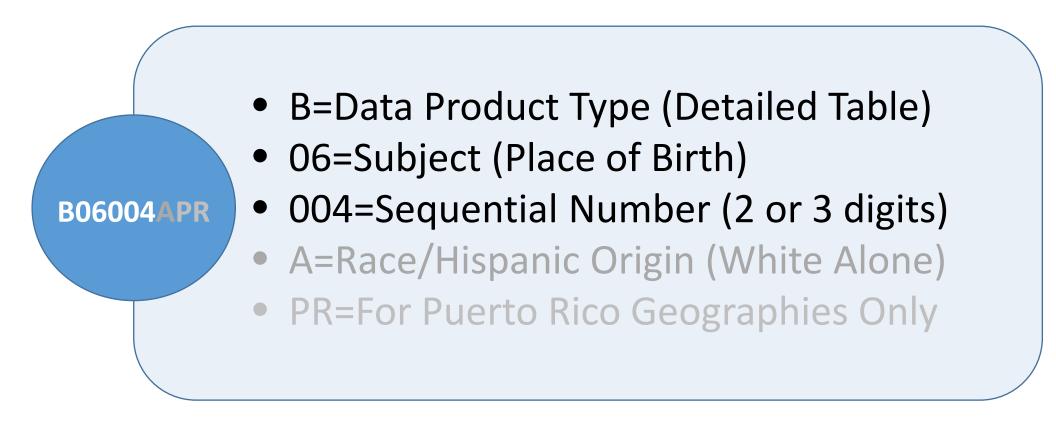


ACS Content

POPULATION		HOUSING
SOCIAL Ancestry Citizenship Citizen Voting Age Population Disability Educational Attainment Fertility Grandparents Language Marital Status Migration School Enrollment Veterans	DEMOGRAPHIC Age Hispanic Origin Race Relationship Sex ECONOMIC Class of Worker Commuting Employment Status Food Stamps (SNAP) Health Insurance Hours/Week, Weeks/Year Income Industry & Occupation	Computer & Internet Use Costs (Mortgage, Taxes, Insurance) Heating Fuel Home Value Occupancy Plumbing/Kitchen Facilities Structure Tenure (Own/Rent) Utilities Vehicles Year Built/ Year Moved In

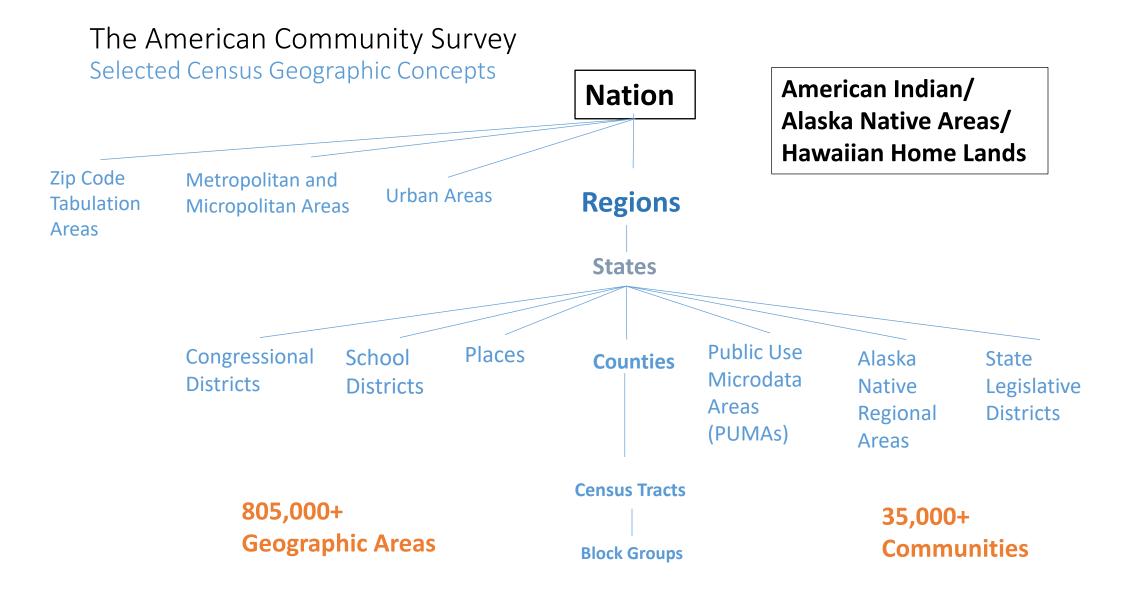


Table/Profile Numbering



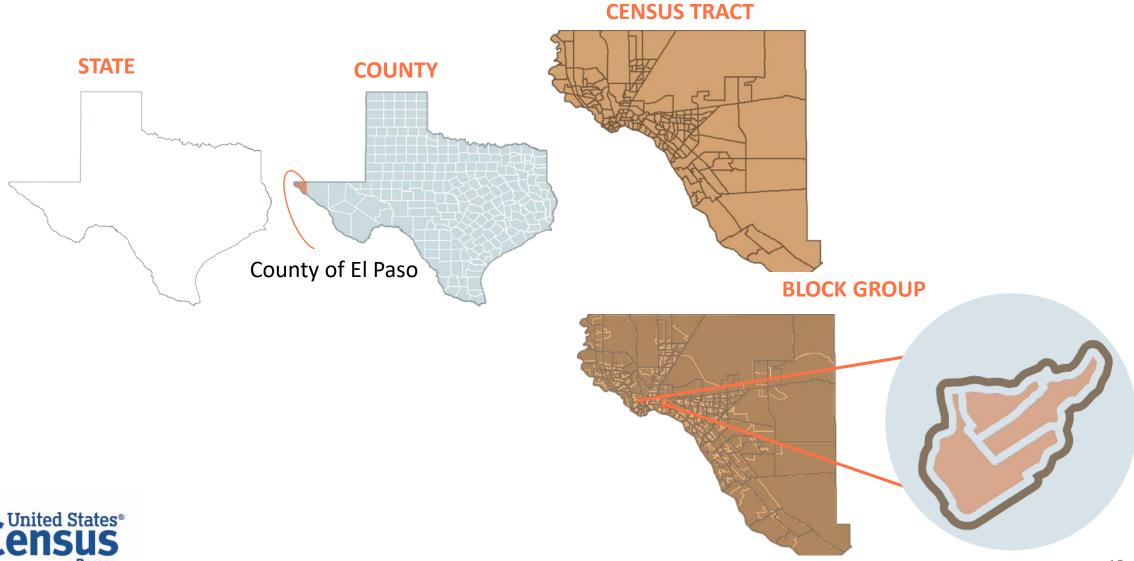
census.gov/programs-surveys/acs/guidance/which-data-tool/table-ids-explained.html







Selected Census Geographic Concepts



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What is a Geodatabase?

- A "TIGER/Line with Selected Demographic and Economic Data" geodatabase file contains geographic boundary data pre-joined with demographic and economic data variables.
- A geodatabase is a geographic file that can only be used in Esri ArcGIS and related software.
- Files are released in the Spring following the ACS 5-year estimate file release.



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Where do I find these files?

- Go to Census.gov.
- Click Browse by Topic Geography.
- Choose "Geographies".
- Click on 2018.
- Choose TIGER/Line with Selected Demographic and Economic Data.
- Choose the geography that you are interested in and download, or download from the ftp site.

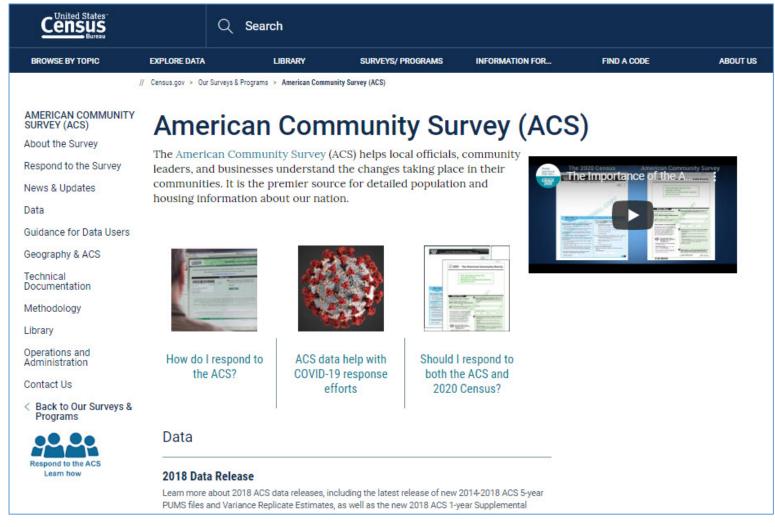


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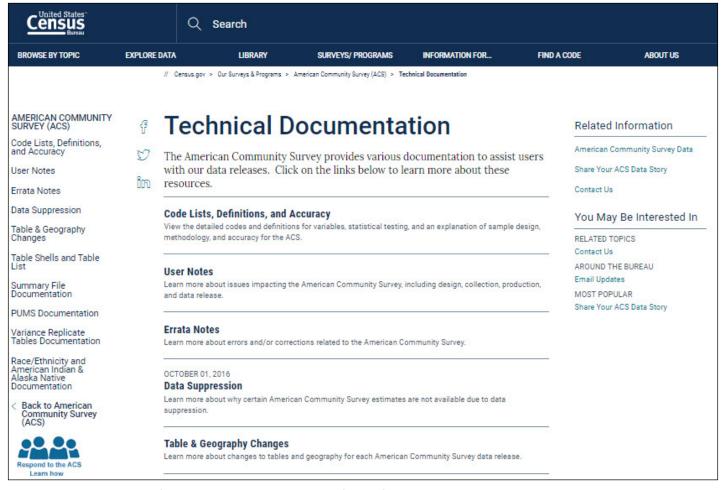


The American Community Survey Main Page





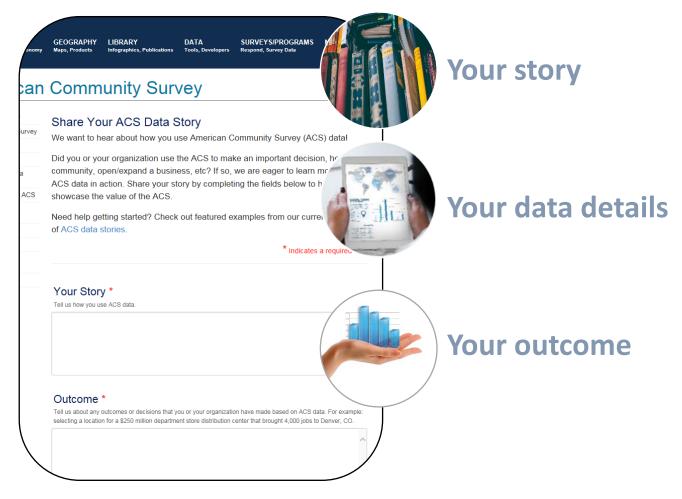
Technical Documentation Page



census.gov/programs-surveys/acs/technical-documentation.html



Data Tell Stories. Tell us Yours!





census.gov/acs/www/share-your-story



• Purpose:

- Improve understanding of the value and utility of ACS data.
- Promote information sharing among data users about key ACS data issues and applications.
- Includes users group website and online community
- Webinars and special sessions at professional meetings planned
- Membership is free and open to all interested ACS data users
- ACS Data Users Conference: May 18-20th (Save the Date!)



The American Community Survey Need Local Stats?

FREE Assistance Near You!
 Our regional data staff can help you access local statistics from the ACS or offer training to help build your skills.

Contact us at:

1-844-ASK-DATA

(1-844-275-3282)

census.askdata@census.gov





The American Community Survey Continue the Conversation



Sign up for and manage alerts at

https://public.govdelivery.com/accounts/ USCENSUS/subscriber/new



Social media: @uscensusbureau

#ACSdata



More information online:

census.gov/acs census.gov/geo



ACS:

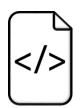
acso.users.support@census.gov

Geography:

geo.geography@census.gov



Census Customer Service Center 800-923-8282

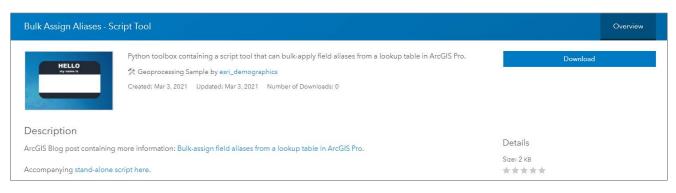


Source Us:

U.S. Census Bureau's [YYYY – YYYY] American Community Survey [1/5]-year [estimates/statistics/data release]

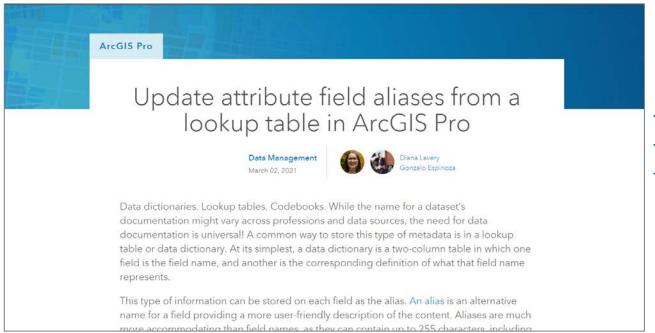


Bulk-Assign Aliases - Script Tool



Script tool available for download:

https://www.arcgis.com/home/item.html?id=c238f18683644e94bf39b6e441a2f09f



Blog post with more information:

https://www.esri.com/arcgisblog/products/arcgis-pro/datamanagement/bulk-assign-field-aliases/



Esri Community

A global community of Esri users where you can find solutions, share ideas, and collaborate to solve problems with GIS

community.esri.com

